

Olivia Skance Team Lead Marketing Business Unit Chevron Environmental Management Company 6101 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 790-6521

RECEIVED

8:25 am, Nov 23, 2011

Alameda County Environmental Health

November 21, 2011

Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Re: Chevron Facility # 9-6991

Address: 2920 Castro Valley Boulevard, Castro Valley, California

I have reviewed the attached report titled <u>Second Semi-Annual 2011 Groundwater Monitoring Report</u> and dated <u>November 21, 2011</u>.

I agree with the conclusions and recommendations presented in the referenced report. The information in this report is accurate to the best of my knowledge and all local Agency/Regional Board guidelines have been followed. This report was prepared by Conestoga-Rovers & Associates, upon whose assistance and advice I have relied.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct.

Sincerely,

Lin Steam

Olivia Skance Project Manager

Enclosure: Report



10969 Trade Center Drive Rancho Cordova, California 95670 Telephone: (916) 889-8900 Fax: (916) 889-8999 www.CRAworld.com

November 21, 2011

Reference No. 611633

Mr. Mark Detterman, P.G., C.E.G. Alameda County Environmental Health (ACEH) 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Second Semi-Annual 2011 Groundwater Monitoring Report Chevron Service Station 9-6991 2920 Castro Valley Boulevard Castro Valley, California Case No. RO0000475

Dear Mr. Detterman:

Conestoga-Rovers & Associates (CRA) is submitting the attached *Groundwater Monitoring and Sampling Report* (report) to ACEH on behalf of Chevron Environmental Management Company (Chevron) for the site referenced above. The report (prepared by Gettler-Ryan Inc. and dated October 12, 2011) presents the results of the sampling of wells MW-2, MW-6, and MW-7 during third quarter 2011. Wells MW-1 and MW-4 are sampled annually during the first quarter, and wells MW-2, MW-6, and MW-7 are sampled semi-annually during the first and third quarters. Also attached are Figure 1 (Vicinity Map) showing the site location, and Figure 2 (Concentration Map) presenting the second semi-annual 2011 analytical results along with a rose diagram. The monitoring results during 2011 are discussed below.

During 2011, petroleum hydrocarbon concentrations in the wells were similar to or less than those observed during 2010. Low concentrations of total petroleum hydrocarbons as diesel (TPHd) (up to 360 micrograms per liter [μ g/L]) and gasoline (TPHg) (up to 420 μ g/L) were detected in MW-7; the detected concentrations were significantly lower than those during 2010 and the lowest since at least the late-1990s. Low concentrations of methyl tertiary butyl ether (MTBE) (up to 14 μ g/L) were also detected in MW-7; benzene, toluene, ethylbenzene, and xylenes (BTEX) were not detected. Until 2011, the TPHd and TPHg concentrations in MW-7 had remained relatively stable, while the MTBE concentrations continue to decrease overall and only low concentrations remain.

Only a low concentration of TPHd (180 μ g/L) was detected in MW-1; the TPHd concentrations have fluctuated in this well. Low concentrations of TPHd (up to 570 μ g/L) were also detected in MW-2; the concentrations were consistent with historical fluctuations. MTBE was detected in MW-2 up to 91 μ g/L; the detected concentrations were slightly higher than those during 2010, but are decreasing overall. TPHg and BTEX generally have not been detected in MW-2 for

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November 21, 2011

Reference No. 611633

- 2 -

several years. No petroleum hydrocarbons were detected in MW-4. Low concentrations of TPHd (150 μ g/L), TPHg (340 μ g/L), ethylbenzene (0.9 μ g/L), xylenes (3 μ g/L), and MTBE (1 μ g/L) were detected in downgradient well MW-6. The detected TPHd, TPHg, and BTEX concentrations in MW-6 were consistent with historical fluctuations and have remained relatively stable and low, while the MTBE concentrations have steadily decreased.

Based on the analytical results, petroleum hydrocarbons remain in groundwater beneath the site in the area of the former and existing underground storage tanks (USTs) and former dispensers. However, the residual concentrations are low and are stable or decreasing. Only low concentrations are present in downgradient well MW-6, thus the plume appears adequately defined.

Based on the site conditions and analytical results, the site appears to be a good candidate for low-risk case closure. On July 29, 2011, CRA submitted a *Case Closure Request* and we are awaiting a response from ACEH to this document. In the meantime, monitoring and sampling will continue to further evaluate groundwater quality and concentration trends.



November 21, 2011

Reference No. 611633

- 3 -

Please contact Mr. James Kiernan at (916) 889-8917 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

James P. Kiernan, P.E.

JK/aa/12 Encl.

Figure 1	Vicinity Map
Figure 2	Concentration Map

Attachment A Groundwater Monitoring and Sampling Report

No. 68498 Exp. 9/30/11

cc: Ms. Olivia Skance, Chevron (*electronic copy*) K&K Petroleum, LLC FIGURES



611633-95(012)GN-EM001 NOV 02/2011



611633-95(012)GN-EM002 NOV 21/2011

ATTACHMENT A

GROUNDWATER MONITORING AND SAMPLING REPORT



October 12, 2011 G-R Job #385296

Ms. Olivia Skance Chevron Environmental Management Company 6101 Bollinger Canyon Road San Ramon, CA 94583

RE: Second Semi-Annual Event of September 23, 2011 Groundwater Monitoring & Sampling Report Chevron Service Station #9-6991 2920 Castro Valley Boulevard Castro Valley, California

Dear Ms. Skance:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and the laboratory analytical reports are also attached. All groundwater and decontamination water generated during sampling activities was removed from the site, per the Standard Operating Procedure.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

Project Coordinator Douglas J. Lee Senior Geologist, P.G. No. 6882 OFCALI Figure 1: Potentiometric Map Table 1: Groundwater Monitoring Data and Analytical Results Table 2: Field Measurements and Analytical Results Standard Operating Procedure - Groundwater Sampling Attachments: Field Data Sheets Chain of Custody Document and Laboratory Analytical Reports



FILE NAME: P:\Enviro\Chevron\9-6991\Q11-9-6991.DWG | Layout Tab: Pot3

Table 1 Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-6991

2920 Castro Valley Boulevard

Castro	Valley.	California	
Cubuo	v unv v.	Camonna	

WELL ID/	тос	GWE	DTW	TPH-DRO	TPH-GRO	В	T	E	X	MTBE	TOG	ETHANOL
DATE	(fl.)	(msl)	(fl.)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW-1												<u></u>
10/08/91	169.30	158.20	11.10		230	45	< 0.5	0.9	9.1		<5 000	
11/04/91	169.30	158.27	11.03		340	120	< 0.5	< 0.5	6.1			
12/04/91	169.30	158.25	11.05	170	<50	3.9	< 0.5	<0.5	< 0.5		<5 000	
06/05/92	169.30	158.26	11.04	<50	100	26	0.6	0.5	1.0			
10/27/92	169.30	158.20	11.10	54	<50	11	< 0.5	<0.5	<0.5			
12/30/92	169.30			170	<50	24	< 0.5	<0.5	< 0.5			
01/27/93	169.30	158.67	10.63									
03/05/93	169.30			<50	<50	< 0.5	< 0.5	< 0.5	<0.5			
03/17/93	169.30	158.59	10.71									
06/18/93	169.30	158.29	11.01	<50	<50	0.6	< 0.5	< 0.5	<1.5			
09/28/93	169.30	157.35	11.95	<50	<50	0.8	<0.5	<0.5	<1.5			
12/30/93	169.30	158.34	10.96	<50	<50	8.5	< 0.5	<0.5	< 0.5			
04/07/94	169.30	158.49	10.81	<10	<50	<0.5	< 0.5	< 0.5	<0.5			
05/31/94	169.30	158.38	10.92	<50	<50	1.0	<0.5	< 0.5	< 0.5			
09/23/94	169.30	158.40	10.90	<50	<50	1.3	<0.5	<0.5	< 0.5			
11/30/94	169.30	158.76	10.54	570 ²	<50	8.9	< 0.5	< 0.5	< 0.5			
03/30/95	169.30	158.60	10.70	110 ¹	<50	<0.5	< 0.5	< 0.5	< 0.5			
06/06/95	169.30	158.38	10.92	570 ¹	61	15	< 0.5	< 0.5	< 0.5			
09/25/95	169.30	158.30	11.00	550 ¹	<50	4.7	< 0.5	<0.5	< 0.5			
12/28/95	169.30	158.50	10.80	330 ¹	72	9.1	0.65	<0.5	< 0.5	6.0		
03/05/96	169.30	159.20	10.10	78 0 ¹	<50	7.8	< 0.5	<0.5	<0.5	<2.5		
09/13/96	169.30	158.28	11.02	SAMPLED AN	NUALLY							
12/19/96	169.30	158.08	11.22									
03/20/97	169.30	158.40	10.90	350 ¹	<50	2.2	< 0.5	< 0.5	<0.5	<2.5		
06/27/97	169.30	158.27	11.03									
09/19/97	169.30	158.34	10.96									
12/05/97	169.30	158.62	10.68									
03/31/98	169.30	158.67	10.63	760 ¹	<50	6.7	< 0.5	< 0.5	<0.5	<2.5		
06/19/98	169.30	159.62	9.68									
08/13/98	169.30	157.67	11.63									
12/17/98	169.30	158.25	11.05									
03/19/99	169.30	158.35	10.95	890 ¹	124	14.8	<0.5	< 0.5	< 0.5	6.49/<2.5 ¹³		
06/23/99	169.30	158.23	11.07									
09/16/99	169.30	158.41	10.89									
12/16/99	169.30	158.46	10.84									

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6991

Castro Valley	, California
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WELL ID/		тос	GWE	DTW	TPH-DRO	TPH-GRO	В	r	E	X	MTBE	TOC	ETHANOL
DATE		(ft.)	(msl)	(fl.)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(49/1.)
MW-1 (cont)									·····	<u></u>	C	·····	
03/02/00		169.30	158.83	10.47	2.300^{1}	155	10.4	<0.5	<05	<0.5	10.3		
06/30/00		169.30	159.04	10.26				-0.5	-0.5	~0.5	10.5		
09/30/00	NP	169.30	158.30	11.00									
12/19/00		169.30	158.44	10.86									
03/13/01	NP	169.30	158.45	10.85	14	50.4	4.50	0 553	0.522	2 10	1.65		
06/12/01		169.30	158.28	11.02	SAMPLED A	NNUALLY				2.10	1.05		
09/18/01		169.30	158.23	11.07	SAMPLED A	NNUALLY							
12/17/01		169.30	158.59	10.71	SAMPLED A	NNUALLY							
03/21/02		169.30	158.54	10.76	14	<50	< 0.50	< 0.50	<0.50	<15	<25		
06/08/02		169.30	158.33	10.97	SAMPLED A	NNUALLY							
09/13/02		169.30	158.28	11.02	SAMPLED A	NNUALLY							
12/13/02		169.30	158.47	10.83	SAMPLED A	NNUALLY							
03/17/03		169.30	158.60	10.70	250	<50	< 0.50	< 0.50	< 0.50	<1.5	<2.5		
06/16/03		169.30	158.34	10.96	SAMPLED A	NNUALLY							
09/15/03		169.30	158.28	11.02	SAMPLED A	NNUALLY							
12/15/03		169.30	158.71	10.59	SAMPLED A	NNUALLY							
03/01/04		169.30	158.78	10.52	NOT SAMPL	ED DUE TO I	NSUFFICIEN	NT WATER					
06/28/04		169.30	158.27	11.03	SAMPLED A	NNUALLY							
09/13/04		169.30	156.96	12.34	SAMPLED A	NNUALLY							
12/22/04		169.30	158.38	10.92	SAMPLED A	NNUALLY							
03/04/05		169.30	158.81	10.49	NOT SAMPL	ED DUE TO D	NSUFFICIEN	VT WATER					
06/30/05		169.30	158.54	10.76	SAMPLED A	NNUALLY							
09/16/05		169.30	158.33	10.97	SAMPLED A	NNUALLY							
12/21/05		169.30	158.70	10.60									
03/21/06 ¹⁶		169.30	158.93	10.37	1,100	<50	0.6	<0.5	< 0.5	< 0.5	1		<50
06/21/06		169.30	158.37	10.93	SAMPLED A	NNUALLY							
09/05/06		169.30	158.32	10.98	SAMPLED A	NNUALLY							
12/28/06		169.30	157.52	11.78	SAMPLED A	NNUALLY							
03/26/0716		169.30	158.39	10.91	730	<50	0.6	<0.5	<0.5	<0.5	<0.5		<50
06/26/07		169.30	158.30	11.00	SAMPLED A	NNUALLY							
09/26/07		169.30	158.26	11.04	SAMPLED A	NNUALLY							
12/20/07		169.30	158.66	10.64	SAMPLED A	NNUALLY							
02/29/0816	PER	169.30	158.57	10.73	64	87	4	<0.5	<0.5	<0.5	1		<50
05/09/08		169.30	158.38	10.92	SAMPLED A	NNUALLY							
09/19/08		169.30	158.28	11.02	SAMPLED A	NNUALLY							

Ta	ible 1
Groundwater Monitoring	Data and Analytical Results
Chevron Servie	ce Station #9-6991

						2920 Castro	o Valley Bo	ulevard					
WELL ID/		TOC	GWE	DTW	TPH-DRO	TPH-CRO	alley, Calli B	orma	r		ATTOT		
DATE		(fl.)	(msl)	(fl.)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	10G (ug/L)	LINANUL (ug/L)
MW-1 (con	it)												
12/04/08		169.30	158.28	11.02	SAMPLED A	ANNUALLY		12	-				
03/05/0916	PER-NP23	169.30	159.10	10.20	77	<50	<0.5	<0.5	<0.5	<0.5	<0.5		<50
06/23/09		169.30	158.36	10.94	SAMPLED A	ANNUALLY	-				-0.5		~50
09/01/09		169.30	158.26	11.04	SAMPLED A	ANNUALLY							
03/16/1016	PER	169.30	158.75	10.55	1,200	70	3	<0.5	<0.5	<0.5	1		
09/21/10		169.30	158.20	11.10	SAMPLED /	NNUALLY							
03/23/1116	PER	169.30	159.02	10.28	180	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
09/23/11		169.30	158.28	11.02	SAMPLED	ANNUALLY	-				-0.5	-	-
MW-2													
10/08/91		169.15	157.20	11.95		110	5.1	1.1	0.8	26	- <u>a</u>		
11/19/91		169.15	157.40	11.75		120	11	11	<0.5	17			
12/04/91		169.15	157.35	11.80	130	440	30	2.5	<0.5	52			-
06/05/92		169.15	157.35	11.80	130	80	13	<0.5	<0.5	1.0			
10/27/92		169.15	157.15	12.00	110	54	13	<0.5	<0.5	<0.5			
12/30/92		169.15			92	180	30	<0.5	<0.5	1.0			
01/27/93		169.15	158.24	10.91					-0.5				
03/05/93		169.15			<50	<50	<0.5	<0.5	<0.5	<0.5			
03/17/93		169.15	158.26	10.89						-0.5			
06/18/93		169.15	157.41	11.74	<50	<50	1.4	<0.5	<0.5	<15			
09/28/93		169.15	157.97	11.18	<50	<50	0.6	<0.5	<0.5	<1.5			
12/30/93		169.15	158.34	21.00	<50	<50	0.9	<0.5	<0.5	<0.5	2		
04/07/94		169.15	158.40	10.75	<10	<50	< 0.5	<0.5	<0.5	<0.5	2		
05/31/94		169.15	158.35	10.80	<50	<50	<0.5	<0.5	<0.5	<0.5			
09/23/94		169.15	157.50	11.65	120	<50	0.7	<0.5	<0.5	<0.5		-	
11/30/94		169.15	158.41	10.74	570 ⁴	55	2.9	<0.5	1 4	0.94			
03/30/95		169.15	158.25	10.90	430 ¹	91	4.5	<0.5	3.8	<0.54			12
06/06/95		169.15	157.73	11.42	410 ¹	<50	<0.5	<0.5	<0.5	<0.5			
09/25/95		169.15	157.52	11.63	220 ¹	<50	<0.5	<0.5	<0.5 <0.5	<0.5		-	12
					,	- •		-0.5	-0.5	2.01			

169.15

169.15

169.15

169.15

169.15

157.98

159.09

157.37

158.30

157.75

11.17

10.06

11.78

10.85

11.40

120¹

860¹

1,300

190¹

<2,000

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SAMPLED SEMI-ANNUALLY

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03/05/96

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03/20/97

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Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6991

Castro Valley, California

WELL ID/		TOC	GWE	DTW	TPH-DRO	TPH-GRO		The second se		••••••	MTRF	TOC	
DATE		(ft.)	(msl)	(fl.)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	Cue/L)	(ue/L)	(ue/L)	(up/L)	(no/L)
MW-2 (cont)					<u></u>		<u></u>			<u> </u>			(*B**)
06/27/97		169.15	157.35	11.80									
09/19/97		169.15	157.43	11.72	60 ¹	<50	< 0.5	<0.5	<0.5	<0.5	280		
12/08/97		169.15	158.27	10.88									
03/31/98		169.15	158.46	10.69	220 ¹	110	30	0.74	0.74	0.59	1.000		
06/19/98		169.15	159.31	9.84									
08/31/98		169.15	157.43	11.72	380 ¹	<100	3.4	<1.0	<1.0	<1.0	980		
12/17/98		169.15	157.60	11.55							480		
03/19/99		169.15	158.63	10.52	107 ⁴	<250	12.7	<2.5	<2.5	<2.5	1.040/819 ¹³		
06/23/99		169.15	159.61	9.54									
09/16/99		169.15	157.54	11.61	84.9	<100	<1.0	<1.0	<1.0	<1.0	216		
12/16/99		169.15	157.86	11.29									
03/02/00		169.15	158.70	10.45	<50	84.8	21.5	<0.5	< 0.5	0.636	413		
06/30/00		169.15	159.08	10.07									
09/30/00	NP	169.15	157.54	11.61	10011	<50	< 0.50	0.57	< 0.50	1.0	2,800		
12/19/00		169.15	158.04	11.11									
03/13/01	NP	169.15	158.22	10.93	¹⁴	179	11.6	2.01	0.856	3.66	1.290		
06/12/01		169.15	157.52	11.63									
09/18/01	NP	169.15	157.37	11.78	100	<50	< 0.50	< 0.50	< 0.50	<1.5	670		
12/17/01		169.15	158.29	10.86	SAMPLED S	EMI-ANNUAL	LY						
09/13/02		169.15	157.50	11.65	200	<50	< 0.50	< 0.50	< 0.50	<1.5	260		
12/13/02		169.15	158.07	11.08	SAMPLED S	EMI-ANNUAL	LY						
03/17/03		169.15	158.38	10.77	NOT SAMPL	ED DUE TO IN	NSUFFICIEN	NT WATER					
06/16/03		169.15	157.77	11.38	SAMPLED S	EMI-ANNUAL	LY						
09/15/03 ^{16,17}		169.15	157.55	11.60	110	<50	< 0.5	<0.5	<0.5	0.6	400		
12/15/03		169.15	158.40	10.75	SAMPLED S	EMI-ANNUAL	LY						
03/01/04		169.15	158.49	10.66	NOT SAMPL	ED DUE TO IN	SUFFICIEN	NT WATER					
06/28/04		169.15	157.63	11.52	SAMPLED S	EMI-ANNUAL	LY						
09/13/04		169.15	156.27	12.88	NOT SAMPL	ED DUE TO IN	NSUFFICIEN	NT WATER					
12/22/04		169.15	157.93	11.22	SAMPLED S	EMI-ANNUAL	LY						
03/04/05		169.15	158.58	10.57	NOT SAMPL	ED DUE TO IN	SUFFICIEN	NT WATER					
06/30/05		169.15	158.08	11.07	SAMPLED S	EMI-ANNUAL	LY						
09/16/05 ¹⁶	NP	169.15	156.64	12.51	130	<50	< 0.5	<0.5	<0.5	< 0.5	140		<50
12/21/05		169.15	158.41	10.74	SAMPLED SI	EMI-ANNUAL	LY						
03/21/06 ¹⁶		169.15	158.74	10.41	72	<50	<0.5	< 0.5	<0.5	<0.5	530		<50
06/21/06		169.15	157.64	11.51	SAMPLED SI	EMI-ANNUAL	LY						

Table 1	
Groundwater Monitoring Data and Analytical Results	
Chevron Service Station #9-6991	

Contro	Vallar	California	
Castio	valley.	C ALLOFULZ	1

WELL ID/		тос	GWE	DTW	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	TOG	ETHANOL
DATE		(fL)	(msl)	(fl.)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW-2 (con	t)												·····
09/05/0616	.,	169.15	157.51	11.64	620	<50	<0.5	<0.5	<0.5	<0.5	150		<50
12/28/06		169.15	158,19	10.96	SAMPLED S	EMI-ANNUAL	LY	-					50
03/26/0716		169.15	157.74	11.41	86	<50	<0.5	<0.5	<0.5	<0.5	160		<50
06/26/07		169.15	157.60	11.55	SAMPLED S	EMI-ANNUAL	LY	-					
09/26/0716		169.15	157.52	11.63	140	<50	<0.5	<0.5	<0.5	<0.5	69		<50
12/20/07		169.15	158.50	10.65	SAMPLED S	EMI-ANNUAL	LY						
02/29/0816	PER	169.15	158.18	10.97	73	<50	<0.5	<0.5	<0.5	<0.5	54		<50
05/09/08		169.15	157.74	11.41	SAMPLED S	EMI-ANNUAL	LY	-			-		
09/19/08	PER	169.15	157.48	11.67	120	<50	<0.5	<0.5	< 0.5	<0.5	12		<50
12/04/08		169.15	157.67	11.48	SAMPLED S	EMI-ANNUAL	LY	-				-	-
03/05/0916	PER-NP ²³	169.15	158.65	10.50	<50	<50	< 0.5	<0.5	<0.5	<0.5	55		<50
06/23/09		169.15	157.65	11.50	SAMPLED S	EMI-ANNUAL	LY						
09/01/0916	PER	169.15	157.55	11.60	75	<50	<0.5	<0.5	<0.5	<0.5	10		
03/16/1016	PER	169.15	158.50	10.65	12024	<50	<0.5	<0.5	<0.5	<0.5	23		
09/21/1016	PER	169.15	157.67	11.48	84	<50	1	<0.5	<0.5	<0.5	32		
03/23/1116	PER	169.15	158.97	10.18	570	<50	< 0.5	<0.5	<0.5	<0.5	91		
09/23/11 ¹⁶	PER	169.15	157.70	11.45	130	<50	<0.5	<0.5	<0.5	<0.5	50	-	
MW-4													
10/27/92		169.18	157.79	11.39	<50	<50	< 0.5	0.6	0.5	4.3	-	-	
12/30/92		169.18	159.05	10.13	<50	<50	< 0.5	< 0.5	<0.5	<0.5	1.00		544-1
01/27/93		169.18	160.09	9.09									
03/05/93		169.18			<50	<50	< 0.5	< 0.5	<0.5	< 0.5	-	1220	
03/17/93		169.18	159.28	9.90									
06/18/93		169.18	158.50	10.68	<50	<50	<0.5	<0.5	<0.5	<1.5			
09/28/93		169.18	159.82	9.36	<50	<50	< 0.5	< 0.5	<0.5	<1.5		-	
12/30/93		169.18	159.91	9.27	<50	<50	<0.5	<0.5	< 0.5	<0.5	-	1.22	
04/07/94		169.18	160.37	8.81	<10	<50	< 0.5	<0.5	<0.5	< 0.5			
05/31/94		169.18	160.27	8.91	<50	<50	< 0.5	< 0.5	<0.5	< 0.5			
09/23/94		169.18	158.79	10.39	<50	<50	< 0.5	< 0.5	<0.5	<0.5			
11/30/94		169.18	160.08	9.10	58 ²	<50	< 0.5	<0.5	<0.5	< 0.5			
03/30/95		169.18	160.66	8.52	61 ¹	<50	<0.5	<0.5	< 0.5	<0.5	12.2		
06/06/95		169.18	158.70	10.48	<50	<50	< 0.5	< 0.5	< 0.5	<0.5		**	
09/25/95		169.18	158.38	10.80	<50	<50	< 0.5	< 0.5	<0.5	<0.5			

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6991

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	1.000		_		Castro V	alley, Calif	ornia					
WELL ID/	тос	GWE	DTW	TPH-DRO	TPH-GRO	В	Т	E	X	MTBE	TOG	ETHANOL
DATE	(ft.)	(msl)	(fl.)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW-4 (cont)												
12/28/95	169.18	159.23	9.95	<50	<50	<0.5	<0.5	<0.5	<0.5	9.9		
12/21/0516	169.18	159.65	9.53	76 ¹⁸	<50	<0.5	<0.5	<0.5	<0.5	0.7		<50
03/21/0616	169.18	160.35	8.83	<50	<50	<0.5	<0.5	<0.5	<0.5	0.5		<50
06/21/0616	169.18	158.55	10.63	<50	<50	<0.5	<0.5	<0.5	<0.5	0.8		<50
09/05/06 ¹⁶	169.18	158.24	10.94	170	<50	< 0.5	<0.5	<0.5	<0.5	1		<50
12/28/0616	169.18	159.06	10.12	120	<50	<0.5	<0.5	<0.5	<0.5	<0.5		<50
03/26/0716	169.18	158.73	10.45	290	<50	<0.5	<0.5	<0.5	<0.5	<0.5		<50
06/26/0716	169.18	158.22	10.96	<50	<50	<0.5	<0.5	<0.5	<0.5	1	-	<50
09/26/0716	169.18	157.98	11.20	<50	<50	<0.5	<0.5	<0.5	<0.5	0.8		<50
12/20/0716	169.18	159.01	10.17	62	<50	<0.5	<0.5	<0.5	<0.5	0.5		<50
02/29/0816	169.18	159.32	9.86	180	<50	<0.5	<0.5	<0.5	<0.5	<0.5		<50
05/09/0816	169.18	158.41	10.77	80	<50	<0.5	<0.5	<0.5	<0.5	0.6		<50
09/19/08 ¹⁶	169.18	157.97	11.21	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5		<50
12/04/0816	169.18	158.20	10.98	58	<50	<0.5	<0.5	<0.5	<0.5	0.8		<50
03/05/0916	169.18	159.36	9.82	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5		<50
06/23/09	169.18	158.45	10.73	SAMPLED A	ANNUALLY	4						
09/01/09	169.18	158.10	11.08	SAMPLED A	ANNUALLY	-						
03/16/1016	169.18	159.81	9.37	60 ²⁵	<50	<0.5	<0.5	<0.5	<0.5	<0.5		
09/21/10	169.18	158.06	11.12	SAMPLED /	ANNUALLY							
03/23/1116	169.18	160.39	8.79	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-	
09/23/11	169.18	158.32	10.86	SAMPLED	ANNUALLY	-	-	-	-	-	-	-
MW-6												
10/27/92	166.46	153 02	12.54	<50	600	22	22	24	120			
12/30/92	166.46	156.26	10.20	470	1 700	170	16	24 16	150	-		
01/27/93	166.46	156.44	10.20	470				40	100			
03/05/93	166 46		10.02	150	480	76	0.9	3.1	71	100		-
03/17/93	166.46	155 79	10.67				0.7	5.1	/.1			
06/18/93	166.46	154.63	11.83	51	240	37	3.4	2.0	18			
09/28/93	166.46	154.05	11.55	120	150	11	1.7	1.3	13			
12/30/93	166.46	154.90	11.50	290	680	77	5.1	1.5	4.5			
04/07/94	166.46	155.34	11.05	<10	190	24	20	1.0	13			-
05/31/94	166.46			~10	170	24	2.7	1.7	0.0			
09/23/94	166.46	155.05	11 41									-
07120171	100.70	155.05	11.41									

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6991
2920 Castro Valley Boulevard

Castro Valley, California	Valley, California
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WELL ID/	TOC	GWE	DTW	TPH-DRO	TPH-GRO	B	T.	E	x	MTBE	TOG	FTHANOL
DATE	(fL)	(msl)	(fl.)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW-6 (cont)									<u></u>	<u></u>		
11/30/94	166.46	156.58	9.88	150 ²	320	49	0.58	1.4	1.2			
12/15/03 ¹⁶	166.46	156.60	9.86	71	210	0.5	0.9	0.7	2	14		<50
03/01/04 ^{16,21}	166.46	157.16	9.30	<250	150	< 0.5	4	3	18	10		<50
06/28/04 ^{16,21}	166.46	155.13	11.33	66	100	<0.5	< 0.5	< 0.5	<0.5	18		
09/13/04 ^{16,21}	166.46	154.88	11.58	<50	<50	< 0.5	<0.5	<0.5	<0.5	17		<50
12/22/04 ^{16,21}	166.46	155.75	10.71	300	440	1	1	2	3	10		<50
03/04/05 ^{16,21}	166.46	157.25	9.21	75	65	< 0.5	< 0.5	<0.5	1	8		<50
06/30/05 ^{16,21}	166.46	155.49	10.97	73	<50	< 0.5	<0.5	< 0.5	<0.5	7		<50
09/16/05 ^{16,21}	166.46	155.02	11.44	58 ¹⁷	<50	< 0.5	< 0.5	< 0.5	<0.5	13		<50
12/21/05 ^{16,21}	166.46	156.66	9.80	120 ¹⁹	140	< 0.5	< 0.5	<0.5	1	8		<50
03/21/06 ^{16,21}	166.46	157.54	8.92	75	52	< 0.5	< 0.5	0.9	3	8		<50
06/21/06 ^{16,21}	166.46	155.38	11.08	56	92	< 0.5	< 0.5	0.5	2	10		<50
09/05/06 ^{16,21}	166.46	155.07	11.39	67	62	< 0.5	< 0.5	<0.5	<0.5	9		<50
12/28/06 ^{16,21}	166.46	156.32	10.14	300	260	< 0.5	0.5	<0.5	1	3		<50
03/26/07 ²¹	166.46	INACCESS	IBLE - VEH	HICLE PARKE	D OVER WELI							
06/26/07 ¹⁶	166.46	155.32	11.14	67	<50	<0.5	<0.5	< 0.5	<0.5	8		<50
09/26/07	166.46	155.02	11.44	84	180	< 0.5	0.5	3	5	6		
12/20/07	166.46	156.41	10.05	220	530	< 0.5	0.7	1	7	2		22
02/29/0816	166.46	156.49	9.97	110	110	<0.5	<0.5	1	4	4		<50
05/09/08	166.46	155.19	11.27	100	<50	<0.5	<0.5	<0.5	<0.5	<0.5		<50
09/19/0816	166.46	154.85	11.61	<50	<50	< 0.5	< 0.5	<0.5	<0.5	5		<50
12/04/0816	166.46	155.08	11.38	<50	<50	<0.5	<0.5	<0.5	<0.5	5		<50
03/05/0918	166.46	157.57	8.89	140	160	<0.5	<0.5	1	7	2		<50
06/23/09	166.46	155.14	11.32	SAMPLED S	EMI-ANNUAL	LY						
09/01/0916	166.46	154.82	11.64	52	<50	<0.5	< 0.5	<0.5	<0.5	5		
03/16/1016	166.46	156.78	9.68	76 ²⁵	100	<0.5	< 0.5	0.7	7	0.7		
09/21/1018	166.46	154.98	11.48	51	<50	<0.5	<0.5	< 0.5	<0.5	3		
03/23/11	166.46	INACCESS	IBLE - VEH	IICLE PARKE	D OVER WELL	,						
09/23/11	166.46	155.41	11.05	150	340	<0.5	<0.5	0.9	3	1		
MW-7												
09/25/95	168.80	157.20	11.60	1,400 ¹	220	0.79	< 0.5	0.67	<0.5			
12/28/95	168.80	158.14	10.66	590 ¹	<50	<0.5	<0.5	< 0.5	< 0.5	<2.5		
03/05/96	168.80	159.74	9.06	320 ¹	1,400	<10	<10	47	<10	5,300		

7

Table 1 Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-6991 2920 Castro Valley Boulevard

						Castro V	alley, Califo	ornia					
WELL ID/		TOC	GWE	DTW	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	TOG	ETHANOL
DATE		(ft.)	(msl)	(fl.)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW-7 (cont)													
06/27/96		168.80	157.27	11.53	630 ¹	<2,500	<25	<25	<25	<25	14 000		
09/13/96		168.80	156.88	11.92	1.400	1.100	26	<10	24	<10	20,000		
12/19/96		168.80	158.29	10.51	1.100^{3}	<5.000	<50	<50	<50	<50	12 000		
03/20/97		168.80	157.84	10.96	$1,600^{3}$	<1.000	<10	<10	<10	<10	$2.100/2.000^{13}$		
06/27/97		168.80	157.02	11.78	1,600 ¹	2,000	<20	<20	<20	<20	11.000		
09/19/97		168.80	156.87	11.93	1,900 ¹	<1.000	35	<10	<10	<10	13.000		
12/05/97		168.80	158.40	10.40	1,100 ¹	2,100	47	2.7	28	<2.5	15,000		
03/31/98		168.80	158.89	9.91	780 ¹	410	4.0	0.61	2.2	<0.5	<2.5		
06/19/98		168.80	159.09	9.71	480 ¹	1,100	16	<10	17	<10	12.000		
08/31/98		168.80	157.11	11.69	580 ¹	<500	350	22	<5.0	<5.0	47,000		
12/17/98		168.80	157.70	11.10	970	1.800	<10	<10	2.4	<10	$13.000/14.000^{13}$		
03/19/99		168.80	158.51	10.29	615 ¹	1.280	<5.0	5.0	16.3	<5.0	$2 240/2 910^{13}$		
06/23/99		168.80	157.25	11.55	1,240 ¹	<5.000	<50	<50	<50	<50	18 000		
09/16/99		168.80	157.31	11.49	2,230	<5,000	<50	<50	<50	<50	13,700		
12/16/99		168.80	158.27	10.53	973 ¹	1,330	<1.0	6.44	14	5.17	10,800		
03/02/00		168.80	159.25	9.55	880^{1}	1.980	7.22	<5.0	6.11	<5.0	4 230		
06/30/00		168.80	157.68	11.12	620 ⁷	$2,500^{6}$	6.0	8.5	16	72	6,900		
09/30/00	NP	168.80	157.23	11.57	$1,600^{7}$	1,700 ¹⁰	750	<5.0	<5.0	<5.0	7,300		
12/19/00		168.80	158.26	10.54	1,100 ¹²	1.80010	<10	<10	<10	<10	4,900		
03/13/01		168.80	158.74	10.06	1,500 ¹²	1,470	9.34	5.09	6.08	2.69	2,920		
06/12/01		168.80	157.45	11.35	910 ¹⁵	920 ¹⁰	260	4.2	9.7	2.8	4 500		
09/18/01		168.80	156.87	11.93	3,000	2,000	< 0.50	< 0.50	<0.50	<1.5	5 300		
12/17/01		168.80	157.99	10.81	7,000	1,700	<5.0	< 0.50	7.1	<1.5	4,100		
03/21/02		168.80	158.56	10.24	13,000	3,200	<5.0	< 0.50	24	<1.5	980		
06/08/02		168.80	157.32	11.48	3,500	1,500	3.6	< 0.50	8.5	<1.5	2.800		
09/13/02		168.80	157.02	11.78	2,400	1,200	1.8	<1.0	2.8	<1.5	3.300		
12/13/02		168.80	157.97	10.83	3,400	1.100	2.4	< 0.50	2.3	<1.5	2,000		
03/17/03		168.80	158.71	10.09	3,700	1,600	<10	< 0.50	5.1	<1.5	1,000		
06/16/03 ¹⁶		168.80	157.81	10.99	4,400	2,500	1	0.5	14	<0.5	260		
09/15/03 ¹⁶		168.80	157.38	11.42	4,700	1,700	1	< 0.5	6	0.5	790		<50
12/15/03 ¹⁶		168.80	158.58	10.22	3,200	610	<0.5	< 0.5	1	<0.5	780		<50
03/01/04 ¹⁶		168.80	159.19	9.61	2,200	1,500	<0.5	< 0.5	4	<0.5	16		<50
06/28/04 ¹⁶		168.80	157.38	11.42	3,700	2,500	2	< 0.5	8	<0.5	300		-50
09/13/04 ¹⁶		168.80	156.78	12.02	2,000	2,000	1	<1	4	<1	700		<100
12/22/04 ¹⁶		168.80	158.39	10.41	1,300	970	0.8	<0.5	5	< 0.5	370		<50

Table 1	
Groundwater Monitoring Data and Analytical Results	
Chevron Service Station #9-6991	

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2920 Castro Valley Boulevard

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					Castro v	alley, Call	ornia					
WELL ID/	TOC	GWE	DTW	TPH-DRO	TPH-GRO	В	T	E	X	MTBE	TOG	ETHANOL
DATE	(ft.)	(msl)	(fl.)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MW-7 (cont)												
03/04/0516	168.80	159.12	9.68	890	790	<0.5	<0.5	1	<0.5	5		<50
06/30/05 ¹⁶	168.80	157.63	11.17	2,600	1.300	<0.5	<0.5	3	<0.5	68		<50
09/16/0516	168.80	157.29	11.51	1,300	1.200	<0.5	<0.5	ĩ	<0.5	380		<50
12/21/0516	168.80	158.74	10.06	1,60020	1.300	< 0.5	<0.5	2	<0.5	170		<50
03/21/0616	168.80	159.28	9.52	2.800	810	<0.5	<0.5	<0.5	<0.5	200		<50
06/21/0616	168.80	157.35	11.45	1,100	1.800	0.5	<0.5	2	<0.5	260		<50
09/05/0616	168.80	157.01	11.79	2,100	910	<0.5	<0.5	<0.5	<0.5	370		<50
12/28/0616	168.80	158.34	10.46	7,200	2,700	0.5	<0.5	3	<0.5	140	14	<50
03/26/0716	168.80	157.46	11.34	6,500	1,300	<0.5	<0.5	1	<0.5	150		<50
06/26/0716	168.80	157.15	11.65	2,100	1,900	0.6	<0.5	2	<0.5	170		<50
09/26/0716	168.80	156.98	11.82	2,200	670	<0.5	< 0.5	<0.5	<0.5	420		<50
12/20/0716	168.80	158.23	10.57	4,300	2,600	0.8	<0.5	4	<0.5	130		<50
02/29/0816	168.80	158.56	10.24	2,400	1,400	<0.5	<0.5	2	<0.5	35		<50
05/09/0816	168.80	157.27	11.53	1,700	2,200	0.6	0.6	2	<0.5	76		<50
09/19/08 ¹⁶	168.80	156.86	11.94	10,000	610	<0.5	<0.5	<0.5	<0.5	430		<50
12/04/0816	168.80	157.16	11.64	3,000	1,100	<0.5	<0.5	<0.5	<0.5	440		<50
03/05/0916	168.80	159.46	9.34	1,000	2.100	< 0.5	<0.5	3	<0.5	57		<50
06/23/0916	168.80	157.41	11.39	2,300	1,800	< 0.5	<0.5	1	<0.5	100	- 44	-
09/01/0916	168.80	156.88	11.92	6,800	2,100	< 0.5	<0.5	1	<0.5	150		14
03/16/1016	168.80	158.99	9.81	5,500	1,700	<0.5	< 0.5	2	<0.5	9		G-
09/21/1016	168.80	157.19	11.61	1,200	2,800	<0.5	<0.5	0.7	<0.5	16	-	
03/23/1116	168.80	159.59	9.21	360	76	<0.5	<0.5	<0.5	<0.5	0.6	-	
09/23/1116	168.80	157.32	11,48	340	420	<0.5	<0.5	<0.5	<0.5	14		-
MW-3												
10/08/91	169.11	160.84	8.27	-	81	1.9	0.7	0.8	2.4			
11/04/91	169.11	158.26	10.85		60	< 0.5	< 0.5	<0.5	< 0.5	-		
12/04/91	169.11	158.06	11.05	<50	<50	<0.5	< 0.5	< 0.5	< 0.5			
06/05/92	169.11	157.96	11.15	170	<50	< 0.5	< 0.5	<0.5	<0.5			<u> </u>
10/27/92	169.11	157.51	11.60	120	<50	<0.5	< 0.5	<0.5	< 0.5			-
12/30/92	169.11			170	<50	< 0.5	< 0.5	<0.5	<0.5			
01/27/93	169.11	160.00	9.11									-
03/05/93	169.11											-
03/17/93	169.11	159.16	9.95			-	-				4	-

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6991

2920	Castro	Valley	Boulevard
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Castro	Vallev.	California
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WELL ID/		TOC	GWE	DTW	TPH-DRO	TPH-GRO	B	T	F	×	MTRF	TOC	FTHANOL
DATE		(ft.)	(msl)	(fl.)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	Cue/L)	(ue/L)	(ug/L)	(ug/L)	(no/L)
MW-3 (cont))				<u></u>	<u> </u>					.		
06/18/93		169.11	158.22	10.89	<50	<50	<0.5	< 0.5	<0.5	<15			
09/28/93		169.11	159.49	9.62	<50	<50	<0.5	<0.5	<0.5	<1.5			
12/30/93		169.11	159.80	9.31	<50	<50	<0.5	< 0.5	<0.5	<0.5			
04/07/94		169.11	160.30	8.81	<10	<50	<0.5	< 0.5	<0.5	<0.5			
05/31/94		169.11	160.21	8.90	<50	<50	<0.5	< 0.5	<0.5	<0.5			
09/23/94		169.11	158.48	10.63	<50	<50	< 0.5	< 0.5	<0.5	< 0.5			
11/30/94		169.11	160.19	8.92									
03/30/95		169.11	160.01	9.10	29 0 ¹	<50	< 0.5	< 0.5	<0.5	< 0.5			
06/06/95		169.11	158.79	10.32	150 ¹	<50	<0.5	<0.5	<0.5	< 0.5			
09/25/95		169.11	158.11	11.00	260 ¹	<50	< 0.5	<0.5	<0.5	< 0.5			
12/28/95		169.11	158.96	10.15	200 ¹	<250	<2.5	<2.5	<2.5	<2.5	1.400		
12/17/98		169.11	158.86	10.25	130 ¹	<250	<2.5	<2.5	<2.5	<2.5	62.000		
03/19/99		169.11	159.37	9.74	139 ¹	<1,000	<10	<10	<10	<10	5.650/5.850 ¹³		
06/23/99		169.11	158.40	10.71	61.6 ¹	<2,000	<20	<20	<20	<20	6.700		
09/16/99		169.11	157.44	11.67	122	<1,000	<10	<10	<10	<10	1.910		
12/16/99		169.11	158.79	10.32							5.850		
12/20/00		169.11	158.91	10.20	96.8 ¹	65.2	<0.5	<0.5	< 0.5	< 0.5	1,790		
03/02/00		169.11	160.26	8.85	<50	<50	<0.5	<0.5	< 0.5	< 0.5	5,600		
06/30/00		169.11	158.81	10.30	<50	360 ⁵	< 0.50	< 0.50	< 0.50	< 0.50	1.300		
09/30/00	NP	169.11	158.07	11.04		150 ⁹	75	<1.3	<1.3	<1.3	8.200		
12/19/00	NP	169.11	159.06	10.05	14	<1,000	<10	<10	<10	<10	4.600		
03/13/01	NP	169.11	159.76	9.35	14	284	0.601	1.00	< 0.500	1.27	3.670		
06/12/01	NP	169.11	158.08	11.03	<50	140 ⁹	67	< 0.50	< 0.50	< 0.50	2,600		
09/18/01	NP	169.11	157.96	11.15	100	240	< 0.50	< 0.50	< 0.50	<1.5	3,200		
12/17/01		169.11	159.22	9.89	270	55	< 0.50	< 0.50	< 0.50	<1.5	930		
03/21/02		169.11	159.38	9.73	290	190	< 0.50	< 0.50	< 0.50	<1.5	2,600		
06/08/02		169.11	158.21	10.90	110	110	< 0.50	< 0.50	< 0.50	<1.5	2,200		
09/13/02		169.11	158.26	10.85	<50	<50	< 0.50	< 0.50	< 0.50	<1.5	650		
12/13/02		169.11	159.11	10.00	120	<50	< 0.50	< 0.50	< 0.50	<1.5	450		
03/17/03		169.11	159.66	9.45	370	80	< 0.50	< 0.50	< 0.50	<1.5	1,600		
06/16/03		169.11	158.98	10.13	NOT SAMPL	ED DUE TO R	NSUFFICIENT	WATER					
09/15/03		169.11	157.85	11.26	NOT SAMPL	ED DUE TO R	SUFFICIENT	WATER					
12/15/03 ¹⁶		169.11	159.78	9.33	14	<50	<0.5	3	0.6	4	220		<50
03/01/04		169.11	159.22	9.89	NOT SAMPL	ED DUE TO P	SUFFICIENT	WATER					
06/28/04 ¹⁶		169.11	158.26	10.85	95	<50	<0.5	< 0.5	<0.5	< 0.5	980		

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron Service Station #9-6991
2920 Castro Valley Boulevard
Castro Valley, California
GWE DTW TPH-DRO TPH-GRO B T E X MTBE
(msl) (ft.) (ug/L) (ug/L) (ug/L) (ug/L) (ug/L) (ug/L)
(msl) (fL) (ug/L) (ug/L) (ug/L) (ug/L) (ug/L) (ug/L)
V AT 12 04 FEFT

DATE (ft.) (msl) (ft.) (ug/L) (ug/L)	<u>(ug/L)</u> 	(ug/L)
MW-3 (cont) 09/13/04 169.11 DRY AT 12.96 FEET		 <50 <50
09/13/04 169.11 DRY AT 12.96 FEET	111	<50 <50
	1 1 1	<50 <50
$12/22/04^{10}$ NP 169.11 159.14 9.97 $-^{14}$ 53 <0.5 <0.5 <0.5 <0.5 110	-	<50
03/04/05 ¹⁶ NP 169.11 159.68 9.43 <50 <50 <0.5 <0.5 <0.5 <0.5 460	-	-20
06/30/05 ¹⁶ NP 169.11 158.66 10.45 58 ¹⁷ <50 <0.5 <0.5 <0.5 <0.5 600		<50
$09/16/05^{16}$ NP 169.11 158.26 10.85 -14 <50 <0.5 <0.5 <0.5 <0.5 530		<50
NOT MONITORED/SAMPLED		~50
MW-5		
10/27/92 167.41 157.46 9.95 <50 74 <0.5 <0.5 0.6 71	1.3 -	
12/30/92 167.41 158.21 9.20 <50 <50 <0.5 <0.5 <0.5 <0.5		12
01/27/93 167.41 157.80 9.61		
03/05/93 167.41 <50 <50 <0.5 <0.5 <0.5 <0.5		
03/17/93 167.41 157.90 9.51		
06/18/93 167.41 157.56 9.85 <50 <50 <0.5 <0.5 <0.5 <0.5		
09/28/93 167.41 157.55 9.86 <50 <50 <0.5 <0.5 <1.5	2	
12/30/93 167.41 157.08 10.33 <50 <50 <0.5 <0.5 <0.5 -		
04/07/94 167.41 157.69 9.72 <10 <50 <0.5 <0.5 <0.5		
05/31/94 167.41 157.68 9.73 <50 <50 <0.5 <0.5 <0.5		
09/23/94 167.41 157.56 9.85 <50 <50 <0.5 <0.5 <0.5		
11/30/94 167.41 157.73 9.68 79^2 <50 <0.5 <0.5 <0.5 -		
03/30/95 167.41 157.79 9.62 <50 <50 <0.5 <0.5 <0.5 -		
06/06/95 167.41 157.55 9.86 <50 <50 <0.5 <0.5 <0.5 -		14
09/25/95 167.41 157.56 9.85 <50 <50 <0.5 <0.5 <0.5		
12/28/95 167.41 157.67 9.74 <50 <50 <0.5 <0.5 <0.5 <2.5		-
NOT MONITORED/SAMPLED		
TRIP BLANK		
10/08/91		
	-	
06/05/92		(**
01/27/93		
03/05/93		

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Table 1 Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-6991

2920 Castro Valley Boulevard

Castro	Valley,	California
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WELL ID/	TOC	GWE	DTW	TPH-DRO	TPH-GRO	В	Т	E	X	MTBE	TOC	ETHANOL
DATE	(ft.)	(msl)	(fl.)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
TRIP BLANK (cont)						<u></u>		<u></u>				0
03/17/93												
06/18/93					<50	<0.5	<0.5	<0.5	<15			
09/28/93					<50	< 0.5	< 0.5	<0.5	<0.5			
12/30/93					<50	<0.5	<0.5	<0.5	<0.5			
04/07/94					<50	< 0.5	<0.5	<0.5	<0.5			
05/31/94					<50	< 0.5	< 0.5	<0.5	<0.5			
09/23/94					<50	< 0.5	< 0.5	<0.5	<0.5			
11/30/94					<50	< 0.5	<0.5	<0.5	<0.5			
03/30/95			**		<50	< 0.5	< 0.5	<0.5	<0.5			
06/06/95					<50	< 0.5	< 0.5	<0.5	<0.5			
09/25/95					<50	< 0.5	< 0.5	<0.5	<0.5			
12/28/95					<50	< 0.5	<0.5	<0.5	<0.5			
03/05/96					<50	< 0.5	< 0.5	<0.5	<0.5			
06/27/96					<50	< 0.5	< 0.5	<0.5	<0.5			
09/13/96					<50	< 0.5	<0.5	<0.5	<0.5			
12/19/96					<50	< 0.5	<0.5	<0.5	<0.5	<25		
03/20/97					<50	<0.5	<0.5	<0.5	<0.5	<2.5		
06/27/97					<50	< 0.5	<0.5	<0.5	<0.5	<2.5		
09/19/97					<50	< 0.5	<0.5	<0.5	<0.5	<2.5		
12/05/97					<50	<0.5	<0.5	<0.5	<0.5	<2.5		
03/31/98					<50	< 0.5	<0.5	<0.5	<0.5	<2.5		
06/19/98					<50	<0.5	<0.5	<0.5	<0.5	<2.5		
08/31/98					<50	< 0.5	<0.5	<0.5	<0.5	<2.5		
03/19/99					<50	< 0.5	<0.5	<0.5	<0.5	<2.0		
09/16/99					<50	< 0.5	< 0.5	<0.5	<0.5	<2.0		
12/16/99					<50	<0.5	<0.5	<0.5	<0.5	<2.5		
12/20/99					<50	<0.5	<0.5	<0.5	<0.5	<2.5		
03/02/00					<50	<0.5	<0.5	<0.5	<0.5	<2.5		
06/30/00 ⁸					<50	< 0.50	<0.50	<0.50	<0.50	<2.5		
09/30/00					<50	<0.50	<0.50	<0.50	<0.50	<2.5		
12/19/00					<50	<0.50	<0.50	<0.50	<0.50	<2.5		
03/13/01					<50.0	< 0.500	0.534	<0.500	1.25	<0.500		
06/12/01					<50	< 0.50	<0.50	<0.50	<0.50	<2 5		
09/18/01					<50	<0.50	< 0.50	< 0.50	<1.5	<2.5		

Table 1 Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-6991

2920 Castro Valley Boulevard

Castro	Valley	California	
Castro	vallev.	California	

WELL ID/	тос	GWE	DTW	TPH-DRO	TPH-GRO	B	T	E	X	MTBE	TOG	ETHANOL
DATE	(ft.)	(msl)	(fl.)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
OA								<u></u>	<u></u>		<u></u>	
12/17/01					<50	<0.50	<0.50	<0.50	~15	~2.5		
03/21/02					<50	<0.50	<0.50	<0.50	<1.5	~2.5		
06/08/02					<50	<0.50	<0.50	<0.50	<1.5	<2.5		
09/13/02					<50	<0.50	<0.50	<0.50	<1.5	<2.5		
12/13/02					<50	<0.50	<0.50	<0.50	<1.5	<2.5		
03/17/03					<50	<0.50	<0.50	<0.50	<1.5	<2.5		
06/16/03 ¹⁶					<50	<0.50	<0.50	<0.50	<1.5	<2.5		
09/15/03 ¹⁶					<50	<0.5	<0.5	<0.5	<0.5	< 0.5		
$12/15/03^{16}$					<50	<0.5	<0.5	<0.5	<0.5	< 0.5		
$03/01/04^{16}$					<50	<0.5	<0.5	<0.5	< 0.5	<0.5		
06/28/04 ¹⁶					<50	<0.5	<0.5	< 0.5	<0.5	<0.5		
09/13/04 ¹⁶					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
12/22/04 ¹⁶					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
03/04/05 ¹⁶					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
06/30/05 ¹⁶					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
00/16/05 ¹⁶					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
12/21/05 ¹⁶					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
12/21/05					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
05/21/00					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
00/21/00					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
12/28/06 ¹⁶					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
12/28/00					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
03/26/07					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
06/26/07					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
09/26/07					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
12/20/07					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
02/29/08					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
05/09/08					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
09/19/08**					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
12/04/08					<50	<0.5	<0.5	<0.5	< 0.5	<0.5		
03/05/0910					<50	<0.5	<0.5	<0.5	<0.5	<0.5		
06/23/0910					<50	< 0.5	<0.5	<0.5	<0.5	<0.5		
09/01/09 ¹⁶					<50	<0.5	< 0.5	<0.5	<0.5	<0.5		
DISCONTINUED												

Table 1 Groundwater Monitoring Data and Analytical Results Chevron Service Station #9-6991 2920 Castro Valley Boulevard Castro Valley, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to June 30, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing	GRO = Gasoline Range Organics	MTBE = Methyl Tertiary Butyl Ether
(ft.) = Feet	TPH-D = Total Petroleum Hydrocarbons as Diesel	$(\mu g/L) = Micrograms per liter$
GWE = Groundwater Elevation	TOG = Total Oil and Grease	= Not Measured/Not Analyzed
(msl) = Mean sea level	B = Benzene	NP = No Purge
DTW = Depth to Water	T = Toluene	PER = Peristaltic Pump
TPH = Total Petroleum Hydrocarbons	E = Ethylbenzene	QA = Quality Assurance/Trip Blank
DRO = Diesel Range Organics	X = Xylenes	
 ¹ Chromatogram pattern indicates an unidentified hydrocarbon. ² Chromatogram pattern indicates a non-diagal mix. 		

- ³ Chromatogram pattern indicates an unidentified hydrocarbon and weathered diesel.
- ⁴ Chromatogram pattern indicates a non-diesel mix + discrete peaks.
- ⁵ Laboratory report indicates unidentified hydrocarbons C6-C12.
- ⁶ Laboratory report indicates gasoline C6-C12 + unidentified hydrocarbons C6-C12.
- ⁷ Laboratory report indicates unidentified hydrocarbons C9-C24.
- ⁸ Laboratory report indicates this sample was analyzed outside of the EPA recommended holding time.
- ⁹ Laboratory report indicates discrete peaks.
- ¹⁰ Laboratory report indicates gasoline C6-C12.
- ¹¹ Laboratory report indicates unidentified hydrocarbons >C16.
- ¹² Laboratory report indicates diesel C9-C24 + unidentified hydrocarbons <C16.
- ¹³ Confirmation run.
- ¹⁴ Insufficient water to obtain sample for TPH-D.
- ¹⁵ Laboratory report indicates unidentified hydrocarbons C9-C17.
- ¹⁶ BTEX and MTBE by EPA Method 8260.
- ¹⁷ Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. The reported result is due to individual peak(s) eluting in the DRO range.
- ¹⁸ Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel and contains individual peaks eluting in the DRO range.
- ¹⁹ Laboratory report indicates the observed sample pattern includes #2 fuel/diesel, an additional pattern which elutes later in the DRO range, and individual peaks eluting in the DRO range.
- Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and additional patterns which elute earlier and later in the DRO range.
- ²¹ Incorrect TOC elevation (168.80) was used in past reports. Correct TOC and GWE are shown.
- ²² Analysis inadvertently missed in the field.
- ²³ No Purge due to insufficient water.
- ²⁴ Laboratory report indincates DRO was detected in the method blank at a concentration of 38 μg/L. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.
- ²⁵ Laboratory report indincates DRO was detected in the method blank at a concentration of 38 μg/L. Results from the reextraction are within the limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. The DRO result for the reextract is ND.

	Table 2 Field Measurements and Analytical Results Chevron Service Station #9-6991 2920 Castro Valley Boulevard Castro Valley, California									
WELL ID	DATE	D.O. (mg/L)	ORP (mV)	ALKALINITY (ug/L)	SULFATE (ug/L)	NITRATE as NITROGEN (ug/L)	FERROUS IRON (ug/L)			
MW-1	12/21/05	3.7	151	581,000	184,000	6,400	29			
	03/21/06	4.7	32	546,000	147,000	5,800	600			
	06/21/06	SAMPLED ANNU	JALLY	-						
	09/05/06	SAMPLED ANNU	JALLY		-					
	12/28/06	SAMPLED ANNU	JALLY		-	-				
	03/26/07	3.4	47	844,000 ³	112,000	3,600	22 400			
	02/29/08	2.6	153	¹ <460/584,000 ²	158,000	4,500	730			
MW_4	12/21/05	14	80	207.000	122 000					
	02/21/05	2.0	09	390,000	137,000	2,300	<8.0			
	05/21/06	5.0	82	407,000	139,000	2,200	<8.0			
	00/21/06	0.3	80	10/403,000-	136,000	2,700	12			
	12/28/06	2,1	106	<460/412,000	147,000	2,700	210			
	12/28/06	1,1	114	<460/396,000*	175,000	2,500	<8.0			
	03/26/07	1.2	188	393,000	151,000	1,800	190			
	06/26/07	1.9	31	392,000	179,000	2,900	<8.0			
	09/26/07	2.3	110	`<460/412,000 ⁻	182,000	1,600	<8.0			
	12/20/07	2.1	76	<460/402,000*	169,000	1,400	<8.0			
	02/29/08	1.6	88	¹ <460/396,000 ²	193,000	1,500	15			
	05/09/08	1.1	77	<460/399,000 ²	165,000	1,500	23			
	09/19/08	1.7	43	'<460/420,000 ²	167,000	2,500	<8.0			
MW- 7	12/21/05	1.4	53	475 000	2 700	<400	820			
	03/21/06	2.5	12	439,000	3,800	<400	820			
	06/21/06	0.1	-62	$11400/480000^{2}$	1,600	<100	5,000			
	09/05/06	1.2	-23	$^{1} < 460/419000^{2}$	1,000	<250	3,000			
	12/28/06	0.80	-36	$^{1} < 460/498.000^{2}$	2 100	<250	5,500			
	03/26/07	1.1	-24	490.000 ³	2,100	~250	1,000			
	06/26/07	1.0	-72	426,000	1 800	~250	2,200			
	09/26/07	.90	26	$^{1} < 460/423\ 000^{2}$	2 400	<250	4,700			
	12/20/07	1.3	-8	¹ <460/539.000 ²	3 200	~230	3,800			
	02/29/08	1.2	80	$^{1} < 460/510000^{2}$	8 100	~250	210			
	05/09/08	1.0	65	$^{1} < 460/157\ 000^{2}$	2 700	~230	090			
	09/19/08	1.7	25	¹ <460/403 000 ²	8 100	~230	1,000			
					0,100	~230	8,000			

Table 2Field Measurements and Analytical ResultsChevron Service Station #9-69912920 Castro Valley BoulevardCastro Valley, California

EXPLANATIONS:

D.O. = Dissolved Oxygen (mg/L) = milligrams per liter ORP = Oxidation Reduction Potential (mV) = millivolts --- = Not Analyzed (µg/L) = Micrograms per liter

¹ pH 8.3.

² pH 4.5.

³ Laboratory report indicates this sample was analyzed past the 14-day hold time.

ANALYTICAL METHODS:

Alkalinity by EPA Method SM20 2320 B for Alkalinity to pH 8.3 Alkalinity by EPA Method SM20 2320 B for Alkalinity to pH 4.5 Sulfate by EPA Method 300.0 Nitrate as Nitrogen by EPA Method 300.00 Ferrous Iron by EPA Method SM20 3500-Fe B

STANDARD OPERATING PROCEDURE -GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by IWM to Chemical Waste Management located in Kettleman Hills, California.



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WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#:	Chevron #9-6991	Job Number:	385296	
Site Address:	2920 Castro Valley Blvd	Event Date:	9/23/11	 (inclusive)
City:	Castro Valley, CA	Sampler:	HC	
Well ID	MW- 1	Date Monitored:	9/23/n	
Well Diameter	3/4/ 2 in.	Volume 3/4"= 0.02	1"= 0.04 2"= 0.17 3"= 0.3	38
Total Depth	<u>17.71 ft.</u>	Factor (VF) 4"= 0.66	5"= 1.02 6"= 1.50 12"= 5.8	10
Depth to Water	11.02 ft. Check if water	column is less then 0.50 f	t.	
Depth to Water w	// 80% Recharge [(Height of Water Column x	x3 case volume = E 0.20) + DTW]:	stimated Purge Volume:	gal.
Purge Equipment	Sampling Equir	monte	Time Started:	(2400 hrs)
Disposable Bailer		r /	Depth to Product:	ft
Stainless Steel Bailer	Pressure Bailer	·/	Depth to Water:	ft
Stack Pump	Discrete Bailer		Visual Confirmation/Description	ft
Suction Pump	Peristaltic Pump			
Grundfos	QED Bladder Put	np	Skimmer / Absorbant Sock (circ	cle one)
OED Bladder Pump	Other:		Amt Removed from Well:	gai
Other:	4 		Water Removed:	
Start Time (purge)	Weathe	er Conditions:		
Sample Time/Date	e: / Water (Color: C	Odor: Y / N	
Approx. Flow Rate	e:gpm. Sedime	ent Description:		
Did well de-water?	If yes, Time:	Volume: ga	I. DTW @ Sampling:	
Time (2400 hr.)	Volume (gal.) pH Conductivit (µmbes/cm -	y Temperature uS) (C/F)	D.O. ORP (mg/L) (mV)	
		·····		

		l	<u>ABORATORY IN</u>	FORMATION	
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	x 500ml ambers	YES	NO	ANCASTER	TPH-DRO (8015)
		\leq			
<u> </u>					
OMMENTS:		1/1	/		
Add/Replaced	Lock:	Add/F	Replaced Plug:		Add/Replaced Bolt:



Client/Facility#:	Chevron #9-6991	Job Number:	385296	
Site Address:	2920 Castro Valley Blvd	Event Date:	9/23/11	- (inclusive)
City:	Castro Valley, CA	Sampler:	JH	
Well ID Well Diameter Total Depth Depth to Water	MW-2 3/3/2 in. 14.69 ft. 11.45 ft. Check if water	Date Monitored: Volume 3/4"= 0.02 Factor (VF) 4"= 0.66 column is less then 0.50 f	9 23 14 1"= 0.04 2"= 0.17 3"= 0.34 5"= 1.02 6"= 1.50 12"= 5.80 t.	- B)
Depth to Water w Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Peristaltic Pump QED Bladder Pump Other:	3.29 xVF	x3 case volume = E 0.20) + DTWJ: 12.09 ment:	stimated Purge Volume:	gal. (2400 hrs) ft ft ft ft ft gal gal
Start Time (purge) Sample Time/Date Approx. Flow Rate Did well de-water? Time (2400 hr.) 0903 0906 0906	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} \text{Pr Conditions:} \\ \text{Color:} \\ \hline Color: \\ \hline Colo: \\ \hline Colo: \\ \hline Colo: \\ \hline Colo: $	Clear Ddor: Y / () L	.02

	LABORATORY INFORMATION											
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES							
MW- 2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)							
	2 x 500ml ambers	YES	NO	LANCASTER	TPH-DRO (8015)							
				_								
	L											

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



Client/Facility#:	Chevron #9	-6991		Job Number:	385296	
Site Address:	2920 Castro	o Valley I	Blvd	Event Date:	9/22)	(inclusive)
City:	Castro Valle	ey, CA		Sampler:	314	
				·		
Well ID	MW- 4			Date Monitored:	9/23/11	
Well Diameter	<u> </u>	<u>n.</u>	Volur	ne 3/4"= 0	02 1"= 0.04 2"= 0.17 2"- 0	
Total Depth	19.74 f	<u>t.</u>	Facto	r (VF) 4"= 0.0	66 5''= 1.02 6''= 1.50 12''= 5.3	30
Depth to Water	10.86 f	t. 🔲	Check if water colum	n is less then 0.5	O ft.	
	8.88	_xvf	=	x3 case volume =	= Estimated Purge Volume:	gal.
Depth to Water	w/ 80% Recharg	e [(Height of	Water Column x 0.20)	+ DTW]:		
Purge Equipment:			Permiting Equipments		Time Started:	(2400 hrs)
Disposable Bailer			Sampling Equipment:	/	Depth to Product:	(2400 fils)
Stainless Steel Baile	r/		Disposable Baller		Depth to Water:	ft
Stack Pump	·	י נ	Discrete Bailer		Hydrocarbon Thickness:	ft
Suction Pump		F	Peristaltic Pump		Visual Commation/Descriptio	n:
Grundfos		C	2ED Bladder Pump		Skimmer / Absorbant Sock (cir	cle one)
Peristaltic Pump		C	Other:		Amt Removed from Skimmer:	gal
QED Bladder Pump					Water Removed:	gai
Other:					Product Transferred to:	
Start Time (purge):		Weather Co	nditions:		
Sample Time/Dat	te:/		Water Color:		Odor: Y / N	
Approx. Flow Rat	te:	_gpm.	Sediment De	escription:		
Did well de-water	? If	f yes, Time	Volur	ne:	gal. DTW @ Sampling:	
Time			Conductivity	Tomporative		
(2400 hr.)	Volume (gal.)	pН	(µmhos/cm - µS)	(C/F)	(mg/L) (mV)	
······································				<u> </u>		
						•
SAMPLE ID	(#) CONTAINER	REFRIG	PRESERV. TYPE	FORMATION		
MW	x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)	
	x 500ml ambers	XES	NO	LANCASTER	TPH-DRO (8015)	
	/					
					<u> </u>	

COMMENTS:

Add/Replaced Lock: _____

Add/Replaced Plug: _____

Add/Replaced Bolt: _____



Client/Facility#: Site Address: City:	Chevron #9-6991 2920 Castro Valle Castro Valley, CA	ey Blvd	Job Numbe Event Date: Sampler:	r: <u>385296</u> <u>9/2</u>	3 11 JH	(inclusive)
Well ID Well Diameter Total Depth Depth to Water Depth to Water w Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Peristaltic Pump QED Bladder Pump Other:	MW-6 3/4/(2) in. 23.36 ft. 11.05 ft. 12.33 xVF w/ 80% Recharge [(Heighthere 	Check if water col Check if water col 17 = 2.0 Sampling Equipme Disposable Bailer Pressure Bailer Discrete Bailer Peristattic Pump QED Bladder Pump Other:	Date Monitored plume 3/4"= actor (VF) 4"= lumn is less then 0. ¶ x3 case volume 20) + DTWJ: 13.5 ent:	d: 9 0.02 1"= 0.04 0.66 5"= 1.02 50 ft. e = Estimated Purg 7 Time Sta Time Co Depth to Depth to Depth to Hydrocar Visual Co Skimmer Amt Rem Water Re Product T	23 11 2"= 0.17 3"= (6"= 1.50 12"= 5 e Volume: 6.2 rted:	2.38 5.80 (2400 hrs) (2400 hrs) ft ft ft on: ft ft ft ft gal gal
Start Time (purge) Sample Time/Dat Approx. Flow Rat Did well de-water Time (2400 hr.) /0/2 /0/2 /0/2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Weather (Water Col Sediment me: Vo Conductivity (µmhos/cm - 69 6 98 7 03 7 1 7	Conditions: lor: $(C < R$ Description: blume: (O / F) 22.5 22.5	Clea Odor: Y /(Lis/ gal. DTW @ D.O. (mg/L)	R Image: Imag	2.97

	LABORATORY INFORMATION										
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES						
MW- 6	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)						
	2 x 500ml ambers	YES	NO	LANCASTER	TPH-DRO (8015)						
	ļ										

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____



Client/Facility#:	Chevron #9-6991		Job Number:	385296	
Site Address:	2920 Castro Valley	Blvd	Event Date:	9/23/11	(inclusive)
City:	Castro Valley, CA	·····	Sampler:		(((((((((((((((((((((((((((((((((((((((
Well ID	MW- 7		Date Monitored:	9/23/1	
Well Diameter Total Depth	<u></u>	Volu Facto	me 3/4"= 0.02 or (VF) 4"= 0.66	1"= 0.04 2"= 0.17 5"= 1.02 6"= 1.50	3"= 0.38 12"= 5.80
Depth to Water	11.48 ft.	Check if water colur	nn is less then 0.50	ft.	416
Depth to Water v	v/ 80% Recharge [(Height of	Nater Column x 0.20)	+ DTW]: 13.12	Time Started	 gal.
Purge Equipment: Disposable Bailer Stainless Steel Bailer Stack Pump Suction Pump Grundfos Peristaltic Pump QED Bladder Pump Other:		ampling Equipment: Disposable Bailer Discrete Bailer eristaltic Pump IED Bladder Pump ther:	×	Time Started: Time Completed: Depth to Product: Depth to Water: Hydrocarbon Thicknes Visual Confirmation/D Skimmer / Absorbant Amt Removed from SI Amt Removed from W Water Removed: Product Transferred to	(2400 hrs) ft ft ss:ft escription: Sock (circle one) kimmer:gal /ell:gal
Start Time (purge) Sample Time/Dat Approx. Flow Rate Did well de-water	: 0750 e: 0830 / 9/23/11 e:gpm. ?If yes, Time:	Weather Co Water Color Sediment De Volu	nditions: : <u>Cloct</u> escription: me:ga	Clean Odor: Y / D L.s.H7 al. DTW @ Sampling:	12.52
Time (2400 hr.) 0754 0758 0803	Volume (gal.) pH 1.5 7.37 3.0 7.62 4.5 7.55	Conductivity (µmhos/cm - IS) 567 579 628	Temperature (C/F) 23.6 23.1 23.2	D.O. C (mg/L) (r	NRP nV)

	LABORATORY INFORMATION											
SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES							
MW- 7	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)							
	2 x 500ml ambers	YES	NO	LANCASTER	TPH-DRO (8015)							
	I											

COMMENTS:

Add/Replaced Lock: _____ Add/Replaced Plug: _____ Add/Replaced Bolt: _____

	Chevrc	on Ca	<i>ilifo</i>	rnic	a Re	eg	io	n A	nc	ηlγ	sis	Rec	aue	esi	+/(Chain of Custody
Lancaster Laboratories	Ø92711	-\$5			Acct.	#: <u>1</u>	20	99	San	For nple i		caster Lat インス化	porato	ries u	150 0	mly Group #: 308101
SS#9-5991 G-R#385296 G			'l Proje	ect #. (51H-10	633			A	naty	803	Request	ed		-	G#1268924
Pacinty #: 2920 CASTRO VALLEY BLV Site Address: MTT Chevron PM: G-R, Inc., 6747 Siema CC Consultant/Office: Deanna L. Harding (c Consultant Prj. Mgr.: 925-551-7555 Consultant Phone #: 3 Sampler: 3 Sample Identification MU-2 MU-6 MW-7	Date Collected Date Collected Quillenti, D teanna@grinc 925-5 MC_22 Date Collected Q123111 Collected C	ALLEY, C RAKJ Ki ublin, CA .com) 551-7899	A ernan 94568 Composite	Nati		Containers	× ⊀ X BTEX+MTBE 8260 88*8021 □ 55		8260 full scan	Oxygenates	Total Lead Method	Dissoved Lead				Preservative Codes H = HCl T = Thiosulfate N = HNO ₃ B = NaOH S = H ₂ SO ₄ O = Other J value raporting needed Must meet lowest detection limits possible for 8260 compounds 8021 MTBE Confirmation Confirm highest hit by 8260 Confirm all hits by 8260 Run oxy's on highest hit Run oxy's on all hits Comments / Remarks
Turnaround Time Requested (TAT) (please cirSTD_TAT72 hour24 hour4 day24 hour4 day5 day	cle)	Relinquist	red by:					9	Date 23			Received GE77 Received	l by: ZEZ	-R.	YAÑ.	Date Time
Data Package Options (please circle if required) QC Summary Type I - Full Type VI (Raw Data) Coelt Deliverable not need WIP (RWQCB) Disk	DF/EDD	Relinquish Retinquish UPS Temperatu	ied by G	IEX Receip	ial Carri Ot t-32	ier: ther_	-7 -7	SSEA	Date	Tin 16	3 ¥ ब (r	Received FET Received DU Custody S	by: by: by: Com Seals I	Le ntali		Date Time

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300 Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

4804.01 (north) Rev. 10/12/06



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ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425 Prepared for:

Chevron c/o CRA Suite 107 10969 Trade Center Dr Rancho Cordova CA 95670

October 10, 2011

Project: 96991

Submittal Date: 09/29/2011 Group Number: 1268924 PO Number: 96991 Release Number: MTI State of Sample Origin: CA



OCT 11 2011

GETTLEK-RYAN INC. GENERAL CONTRACTORS

Client Sample Description MW-2-W-110923 Grab Water MW-6-W-110923 Grab Water MW-7-W-110923 Grab Water

Lancaster Labs (LLI) # 6422632 6422633 6422634

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC Gettler-Ryan, Inc. COPY TO ELECTRONIC Chevron c/o CRA COPY TO ELECTRONIC Chevron COPY TO

Attn: Rachelle Munoz Attn: Report Contact Attn: Anna Avina





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Questions? Contact your Client Services Representative Jill M Parker at (717) 656-2300 Ext. 1241

Respectfully Submitted,

Roh Chin-

Robin C. Runkle Senior Specialist



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Page 1 of 1

Sample Description	1: MW-2-W-110923 Grab Water	LLI Sample # WW 6422632
	Facility# 96991 Job# 385296 MTI# 61H-1633 GRD	LLI Group # 1268924
	2920 Castro Valley-Castro T0600100324 MW-2	Account # 12099

Chevron c/o CRA

10969 Trade Center Dr

Rancho Cordova CA 95670

Suite 107

Project Name: 96991

Collected: 09/23/2011 09:40 by JH

Submitted: 09/29/2011 09:05 Reported: 10/10/2011 15:48

CVC02

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	
10943	Benzene		71-43-2	N.D.	0.5	1
10943	Ethylbenzene		100-41-4	N.D.	0.5	1
10943	Methyl Tertiary But	yl Ether	1634-04-4	50	0.5	1
10943	Toluene		108-88-3	N.D.	0.5	1
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Vol	atiles	SW-846	8015B	ug/l	ug/l	
01728	TPH-GRO N. CA water	C6-C12	n.a.	N.D.	50	1
GC Pet	roleum	SW-846	8015B	ug/l	ug/l	
Hydroc	ardons					
06609	TPH-DRO CA C10-C28		n.a.	130	50	1

General Sample Comments

State of California Lab Certification No. 2501 Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D112772AA	10/04/2011 12-05	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D112772AA	10/04/2011 12:05	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11277A20A	10/05/2011 12:03	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11277A20A	10/05/2011 12:22	Marie D.John	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	112720032A	10/03/2011 15.49	Anita M Dale	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	l	112720032A	09/30/2011 09:30	Roza S Goslawska	1



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Page 1 of 1

Sample Description:	MW-6-W-110923 Grab Water	LLI	Sample	#	WW 6422633
	Facility# 96991 Job# 385296 MTI# 61H-1633 GRD	LLI	Group	#	1268924
	2920 Castro Valley-Castro T0600100324 MW-6	Acco	ount -	#	12099

Chevron c/o CRA

10969 Trade Center Dr

Rancho Cordova CA 95670

Suite 107

Project Name: 96991

Collected: 09/23/2011 10:50 by JH

Submitted: 09/29/2011 09:05 Reported: 10/10/2011 15:48

CVC06

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor	
GC/MS 10943 10943 10943 10943	Volatiles Benzene Ethylbenzene Methyl Tertiary Buty Toluene	SW-846	8260B 71-43-2 100-41-4 1634-04-4 108-88-3	ug/l N.D. 0.9 l N.D.	ug/1 0.5 0.5 0.5 0.5	1 1 1	
10943 GC Vol 01728	Xylene (Total) .atiles TPH-GRO N. CA water	SW-846 C6-C12	1330-20-7 8015B n.a.	3 ug/l 340	0.5 ug/l 50	1	
GC Pet Hydroc 06609	arbons TPH-DRO CA C10-C28	SW-846	8015B n.a.	ug/l 150	ug/1 50	1	

General Sample Comments

State of California Lab Certification No. 2501 Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D112772AA	10/04/2011 13.13	Daniel W Weller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D112772AA	10/04/2011 13:13	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11277A20A	10/05/2011 12.44	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11277A20A	10/05/2011 12:44	Marie D John	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	112720032A	10/03/2011 12-09	Anita M Dale	1
02376	Extraction - Fuel/TPH	SW-846 3510C	1	112720032A	09/30/2011 09:30	Roza S Goslawska	1



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Page 1 of 1

Sample Description:	MW-7-W-110923 Grab Water	LLI Sample	# WW 6422634
	Facility# 96991 Job# 385296 MTI# 61H-1633 GRD	LLI Group	# 1268924
	2920 Castro Valley-Castro T0600100324 MW-7	Account	# 12099

Chevron c/o CRA

10969 Trade Center Dr

Rancho Cordova CA 95670

Suite 107

Project Name: 96991

Collected: 09/23/2011 08:30 by JH

Submitted: 09/29/2011 09:05 Reported: 10/10/2011 15:48

CVC07

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles Benzene	SW-846	8260B	ug/l	ug/1	
10943	Ethylbenzene		/1~43-2	N.D.	0.5	1
10043	Mothul Montinue Dut	3 75 1	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary But	yi Ether	1634-04-4	14	0.5	1
10943	Toluene		108-88-3	N.D.	0.5	1
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Vol	atiles	SW-846	8015B	ug/l	ug/l	
01728	TPH-GRO N. CA water	C6-C12	n.a.	420	50	1
GC Pet Hydroc	roleum arbons	SW-846	8015B	ug/l	ug/l	
06609	TPH-DRO CA C10-C28		n.a.	340	50	1

General Sample Comments

State of California Lab Certification No. 2501 Trip blank vials were not received by the laboratory for this sample group.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	D112772AA	10/04/2011 13.36	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D112772AA	10/04/2011 13:36	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11277A20A	10/05/2011 13-06	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11277A20A	10/05/2011 13:06	Marie D John	1
06609	TPH-DRO CA C10-C28	SW-846 8015B	1	112720032A	10/03/2011 15:16	Anita M Dale	1
02376	Extraction - Fuel/TPH (Waters)	SW-846 3510C	1	112720032A	09/30/2011 09:30	Roza S Goslawska	1



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Page 1 of 2

Quality Control Summary

Client Name: Chevron c/o CRA Reported: 10/10/11 at 03:48 PM Group Number: 1268924

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank <u>Result</u>	Blank MDL	Report <u>Units</u>	LCS <u>%REC</u>	LCSD %REC	LCS/LCSD <u>Limits</u>	RPD	<u>RPD Max</u>
Batch number: D112772AA	Sample numbe	r(s): 6422	2632-64226	34				
Benzene	N.D.	0.5	ug/l	95		79-120		
Ethylbenzene	N.D.	0.5	ug/l	87		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	89		76-120		
Toluene	N.D.	0.5	ug/l	86		79-120		
Xylene (Total)	N.D.	0.5	ug/l	86		80-120		
Batch number: 11277A20A	Sample number	r(s): 6422	632-64226	34				
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	91	91	75-135	0	30
Batch number: 112720032A	Sample number	r(s): 6422	632-64226	34				
TPH-DRO CA C10-C28	N.D.	32.	ug/l	81	88	56-122	7	20

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS <u>%REC</u>	MSD %REC	MS/MSD Limits	RPD	RPD <u>MAX</u>	BKG <u>Conc</u>	DUP <u>Conc</u>	DUP RPD	Dup RPD <u>Max</u>
Batch number: D112772AA	Sample	number(s)	: 6422632	-642263	4 UNSPE	K: 6422632			
Benzene	105	104	80-126	0	30				
Ethylbenzene	95	95	71-134	0	30				
Methyl Tertiary Butyl Ether	88	82	72-126	2	30				
Toluene	96	95	80-125	1	30				
Xylene (Total)	95	94	79-125	1	30				

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: UST VOCs by 8260B - Water Batch number: D112772AA Dibromofluoromethane 1.2-Dichloroethane-d4 Toluene-d8 4-Bromofluorobenzene 98 6422632 102 93 96 6422633 104 100 95 100 6422634 102 99 96 99

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.





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Page 2 of 2

Quality Control Summary

Client Reporte	Name: Chevron ed: 10/10/11 a	c/o CRA t 03:48 PM		Group	Number: 1268924
			Surrogate	Quality	Control
Blank	105	98	95	97	
LCS	103	97	94	102	
MS	103	101	95	105	
MSD	101	104	94	103	
Limits:	80-116	77-113	80-113	78-113	
Analysis Batch nur	Name: TPH-GRO N.	CA water C6-C12			
	Trifluorotoluene-F				
6422632	96				
6422633	104				
6422634	118				
Blank	94				
LCS	116				
LCSD	116				
Limits:	63-135				
Analysis Batch num	Name: TPH-DRO CA ber: 112720032A	C10-C28			
	Orthoterphenyl				
6422632	82				
6422633	84				
6422634	80				
Blank	79				
LCS	76				
LCSD	80				
Limits:	59-131				

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RLReporting LimitN.D.none detectedTNTCToo Numerous To CountIUInternational Unitsumhos/cmmicromhos/cmCdegrees Celsiusmeqmilliequivalentsggram(s)ugmicrogram(s)mlmilliliter(s)m3cubic meter(s)	BMQL MPN CP Units NTU ng F Ib. kg mg I ul	Below Minimum Quantitation Level Most Probable Number cobalt-chloroplatinate units nephelometric turbidity units nanogram(s) degrees Fahrenheit pound(s) kilogram(s) milligram(s) liter(s) microliter(s)
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- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than
- J estimated value The result is \geq the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).
- **ppm** parts per million One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.
- ppb parts per billion
- Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.
- U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

- A TIC is a possible aldol-condensation product
- **B** Analyte was also detected in the blank
- C Pesticide result confirmed by GC/MS
- D Compound quantitated on a diluted sample
- E Concentration exceeds the calibration range of the instrument
- N Presumptive evidence of a compound (TICs only)
- P Concentration difference between primary and confirmation columns >25%
- U Compound was not detected
- X,Y,Z Defined in case narrative

Inorganic Qualifiers

- B Value is <CRDL, but ≥IDL
- E Estimated due to interference
- M Duplicate injection precision not met
- N Spike sample not within control limits
- S Method of standard additions (MSA) used for calculation
- U Compound was not detected
- W Post digestion spike out of control limits
- * Duplicate analysis not within control limits
- + Correlation coefficient for MSA < 0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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